

GENERAL NOTES:

- 1. ALL ELECTRICAL EQUIPMENT IS SHOWN IN ITS DE-ENERGIZED STATE UNLESS OTHERWISE NOTED.
  - 2. THIS SYSTEM SCHEMATIC REFLECTS THE IMPLEMENTATION OF THE SYSTEM FUNCTIONAL CONTROL LOGIC DIAGRAMS AND APPLICABLE DESIGN CRITERIA REQUIREMENTS. THE FUNCTIONAL CONTROL LOGIC DIAGRAM AND ITS REFERENCED DOCUMENTATION FOR THE SOLID STATE CONTROL SYSTEM MUST BE USED IN CONJUNCTION WITH THIS SYSTEM SCHEMATIC IN EVALUATING CIRCUIT OPERATION.
- PORTIONS OF THE SYSTEM SCHEMATIC ARE SHOWN OUT-OF-FUNCTION. THESE OUT-OF-FUNCTION PORTIONS ARE SHOWN FOR INFORMATION, WITH REFERENCES PROVIDED TO THE DOCUMENT WHICH CONTROLS THE EQUIPMENT CONFIGURATION.
- 3. SSCS CABLE SHIELDS ARE TERMINATED ON THE SHIELD GROUND BUS LOCATED ADJACENT TO THE TERMINAL BLOCKS. TERMINATION POINTS ON THE GROUND BUS ARE NOT DEDICATED TO A SPECIFIC CABLE.
  - 4. SPECIFIC ENTRANCES ARE INDICATED FOR CABLES ENTERING EQUIPMENT HAVING MORE THAN ONE ENTRANCE PER DIVISION OF SEPARATION. EXAMPLE: SSCS CAB, ENT A.
  - 5. INTERFACE NUMBERS ARE ASSIGNED TO EACH POINT OF INTERFACE WITH THE SSCS. THESE NUMBERS APPEAR ON THE FUNCTIONAL CONTROL LOGIC DIAGRAMS AND THIS SCHEMATIC. THEIR PURPOSE IS TO FACILITATE MOVEMENT BETWEEN THESE DOCUMENTS.
  - 6. REFER TO SYSTEM NO CABLE AND JUMPER PROGRAMS FOR COMPLETE CABLE INFORMATION INCLUDING SPARE CONDUCTORS. ONLY THOSE CONDUCTORS USED ARE SHOWN.
  - 7. JUMPER DESIGNATIONS ARE FORMED BY PREFIXING THE SYSTEM DESIGNATION AND THE J NUMBER SHOWN ON THE SCHEMATIC WITH THE UNIT OF THE ENCLOSURE. EXAMPLE: IIX-IR-013-NOU1.
  - 8. MANUFACTURER'S JUMPER IS TO BE REMOVED FROM ALL TARGET ROCK SOLENOID VALVES WHERE NOTED. THIS IS TO BE DONE BY THE FIELD.
  - 9. THIS SCHEMATIC IS SHOWN FOR UNIT 1. UNIT 2 IS THE SAME EXCEPT FOR THE UNIT AND CABLE DESIGNATION UNIT PREFIX AND INFORMATION SHOWN IN PARENTHESES OR OTHERWISE NOTED.
  - 10. GROUND ALL THERMOCOUPLES IN THE HYDROGEN RECIRCULATION FAN AND HYDROGEN RECOMBINER JUNCTION BOXES BY MEANS OF A CONTINUOUS WIRE CONNECTING ALL LOW RESISTANCE THERMOCOUPLE TERMINALS TO A GROUNDED SCREW IN THE BOX.
  - 11. FIELD TO CONNECT HIGHEST READING THERMOCOUPLES IF OTHER THAN THOSE SHOWN AND INITIATE APPROPRIATE CHANGE REQUEST TO REVISE DRAWING.

REFERENCE DRAWINGS:

- REACTOR BUILDING COMBUSTIBLE GAS CONCENTRATION CONTROL SYSTEM (NO) DESIGN CRITERIA - N4-NO-0740
- CONTAINMENT COMBUSTIBLE GAS CONTROL SYSTEM FUNCTIONAL CONTROL LOGIC DIAGRAM - 2GW0900-NO-1 & 2
- DESIGN CRITERIA DIAGRAM REACTOR BLDG VENTILATION, PURGE, AND COOLING SYSTEM - 3RW0641-00-01, 02
- UNIT COMPUTER SYSTEM SCHEMATIC DIAGRAM - 5GW1640-IC-01, 5GW2640-TC-01
- BOP CABINET COM WIRING DIAGRAM (YORK ELECTRO-PANEL CONTROL TVA CONTRACT 76K3-86243-1) - 5AW1652-JT-15-1, 5AW1662-JT-15-1, 5AW2652-JT-15-1, 5AW2662-JT-15-1
- LOCAL CONTROL/TEST STATIONS STANDARD DRAWINGS WIRING DIAGRAMS - 5GB0677-JL-03, 09 & 70
- 480V MOTOR CONTROL CENTER COMPARTMENT TYPICALS - 5GW0747-RP-3 & 4
- ANNUNCIATOR AND SEQUENTIAL EVENTS RECORDING SYSTEM SCHEMATIC DIAGRAM - 5GW1640-IA-01, 5GW2640-IA-01
- STATUS, ENVIRONMENTAL AND ALARM MONITORING SYSTEM (SEAMS) SCHEMATIC DIAGRAM - 5GW0640-1S-01, 23, 24, 48
- WIRING DIAGRAM-POWER DISTR RELAY CABINETS - 5AW1651-JT-03, 5AW1661-JT-03, 5AW2651-JT-03, 5AW2661-JT-03
- SOLID STATE CONTROL SYSTEM SCHEMATIC DIAGRAM (SSCS) - 5GW0640-1L-01
- JOY MANUFACTURING CO TVA CONTRACT 77K36-820154-5 VANEXIAL RECIRCULATING FAN - FF15502
- TARGET ROCK SOLENOID VALVES TVA CONTRACT 77K33-821230-1 VALVE ASSEMBLY DWG - 3/B SMH-S-4 PROJECT CONTROL DWG - 77DD-035
- WESTINGHOUSE ELECTRIC CORPORATION TVA CONTRACT 76K61-820205 ELECTRIC HYDROGEN RECOMBINER TECHNICAL MANUAL
- B&W NSSS, TVA CONTRACT NO. 71C62-54114-2 MAIN CONTROL ROOM WIRING DIAGRAM - 16-1038567F
- COMSIP, INC TVA CONTRACT NO. BKJ3-826297 CONTAINMENT HYDROGEN ANALYZER CONTROL SCHEMATIC - 06330 CONTAINMENT HYDROGEN ANALYZER REMOTE CONTROL PANEL WIRING DIAGRAM - 06331 CONTAINMENT HYDROGEN ANALYZER ELECTRICAL WIRING DIAGRAM - 06332

SYMBOLS:

- MCN XXXX STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYSTEM (SEAMS) (XXXX-POINT NUMBER)
- AN XXXX ANNUNCIATOR SYSTEM (XXXX-POINT NUMBER)
- LOG XXXX UNIT COMPUTER SYSTEM (XXXX-POINT NUMBER)
- A ALARM UNIT
- I/E CURRENT TO VOLTAGE CONVERTER
- MV/V MILLIVOLTAGE TO VOLTAGE MODIFIER
- I ISOLATOR
- XT SPECIAL TRANSMITTER
- XI SPECIAL INDICATOR
- TI TEMPERATURE INDICATOR
- R RELAY MODULE

Docket # 8-438  
Control # 8304058536  
Date 3-25-83 of Document:  
REGULATORY DOCKET FILE

PRC  
APERTURE  
CARD

3	1510	11/1/82	REVISED REFERENCE DWGS	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	
ADDED DWG PER ECN 1510																			
2	SI, RSH	7-31-81	REVISED REFERENCE DWGS	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	
ADDED NOTE II, COMSIP DRAWINGS																			
1	SI	1-16-80	REVISED REFERENCE DWGS	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	ADD	DEL	CHG	
REVISED REFERENCE DWGS																			
DESIGN	ECN NO.	DATE	ISSUED BY	CHECKED BY	DESIGNED BY	APP'D BY	DATE	ISSUED BY	CHECKED BY	DESIGNED BY	APP'D BY	DATE	ISSUED BY	CHECKED BY	DESIGNED BY	APP'D BY	DATE	ISSUED BY	CHECKED BY
DESIGN																			
CHKD																			
SUPV																			

GENERAL  
UNITS 1 & 2  
  
SCHEMATIC DIAGRAM  
CONTAINMENT COMBUSTIBLE  
GAS CONTROL SYSTEM

REVIEWED	RC(CIVIL) N/A	RE(ELEC) N/A	RM(MECH) N/A	INSPECTED AND APPROVED FOR ISSUE
Bellefonte Nuclear Plant Tennessee Valley Authority Division of Engineering Design				
SUBMITTED	RECOMMENDED	APPROVED		
M. W. Stevenson	John Springer	D. M. H. Lee		
KNOXVILLE	3-28-79	88 E	5GW0640-NO-01	R3

PRINT H  
SIZE F  
THIS SCALE DRAWING IS UNLESS OTHERWISE SPECIFIED  
CONSTRUCTION